LISTING OF CLAIMS:

1. (Currently Amended) A mixing apparatus for concrete including:

a mixing drum supported for rotation about a longitudinal axis, the drum having a closed end defined by a drum head and an open end to receive batch materials to be mixed;

a first, generally helical, mixing blade disposed within the drum and extending towards the drum head; and

a second blade extending at an angle from the <u>first</u>, <u>generally helical</u>, <u>mixing</u>

<u>blade</u> toward the drum head, the second blade being adapted upon mixing rotation of the drum to push/mechanically transfer material from the bottom of the drum near the drum head and to elevate the material for cascading discharge toward the open end of the drum and downward toward the area of largest diameter of the drum <u>and wherein</u>;

the first, generally helical, mixing blade develops in a clockwise direction from an open end of the drum towards the drum head and the second blade extends in an anti-clockwise direction towards the drum head; and wherein

the first, generally helical, mixing blade defines a spillway formation adjacent the second blade and wherein the height of the second blade is greater than the height of the adjoining mixing blade at the point of intersection of the first, generally helical, mixing blade and the second blade, thereby to define a side wall of the spillway formation.

2. (Currently Amended) A mixing apparatus as claimed in claim 1 wherein the mixing blade first, generally helical, mixing blade terminates at the second blade.

3. (Cancelled)

4. (Currently Amended) A mixing apparatus as claimed in any of claims 1 to 3 A mixing apparatus for concrete including:

a mixing drum supported for rotation about a longitudinal axis, the drum having a closed end defined by a drum head and an open end to receive batch materials to be mixed;

a first, generally helical, mixing blade disposed within the drum and extending towards the drum head; and

a second blade extending at an angle from the first, generally helical, mixing blade toward the drum head, the second blade being adapted upon mixing rotation of the drum to push/mechanically transfer material from the bottom of the drum near the drum head and to elevate the material for cascading discharge toward the open end of the drum and downward toward the area of largest diameter of the drum; and wherein the helical mixing blade first, generally helical, mixing blade develops in an anti-clockwise direction from an open end of the drum towards the drum head and the second blade extends in a clockwise direction towards the drum head; and wherein

the first, generally helical, mixing blade defines a spillway formation adjacent the second blade and wherein the height of the second blade is greater than the height of the adjoining mixing blade at the point of intersection of the first, generally helical, mixing blade and the second blade, thereby to define a side wall of the spillway formation.

- 5. (Previously Presented) A mixing apparatus as claimed in claim 1 wherein the second blade meets the helical mixing blade at an angle of about 90° to 100°.
- 6. (Previously Presented) A mixing apparatus as claimed in claim 1 wherein the second blade meets the helical mixing blade at an angle of about 90°.
- 7. (Previously Presented) A mixing apparatus as claimed in claim 1 wherein the second blade is bent at a location spaced from the helical mixing blade.
- 8. (Currently Amended) A mixing apparatus as claimed in claim 1 wherein the drum comprises a first frustro-conical portion extending from a relatively smaller diameter open end to a generally cylindrical central portion having a relatively larger diameter, meet preferably about 2450mm, and a second frustro-conical portion which gradually narrows to a concave plate which defines the drum head.
- 9. (Currently Amended) A mixing apparatus as claimed in claim 8 wherein the second blade meets the helical mixing blade first, generally helical, mixing blade in the second frustro-conical portion near to where the central portion meets the second frustro-conical portion.
- 10. (Cancelled)

11. (Previously Presented) A mixing apparatus as claimed in claim 1 wherein the second blade is tapered, progressively reducing in height from near the mixing blade to near the drum head.

12. (Cancelled)

- 13. (Previously Presented) A mixing apparatus as claimed in claim 1 wherein the apparatus further includes a discharge blade extending from near the drum head and terminating near the second blade.
- 14. (Previously Presented) A mixing apparatus as claimed in claim 1 wherein the apparatus further includes a pair of mixing blades, each including a respective second blade.
- 15. (Currently Amended) A mixing apparatus as claimed in claim 1 wherein the second blade includes [[a]] one or more drainage holes.
- 16. (Previously Presented) A mixing apparatus as claimed in claim 15 wherein one drainage hole is located where the second blade meets the drum head.
- 17. (Currently Amended) A mixing apparatus as claimed in claim 15 wherein one drainage hole is located where the second blade meets the mixing blade first, generally helical, mixing blade.

18. (Previously Presented) A mixing apparatus as claimed in claim 1 wherein the mixing drum is supported on a truck for rotation about a longitudinal axis inclined at about 13° to the horizontal.

19. (New) A mixing apparatus for concrete including:

a mixing drum supported for rotation about a longitudinal axis, the drum having a closed end defined by a drum head and an open end to receive batch materials to be mixed;

a first, generally helical, mixing blade disposed within the drum and extending towards the drum head which terminates before the drum head at a second blade extending at an angle of about 90° to 100° from the first, generally helical, mixing blade toward the drum head, the second blade being adapted upon mixing rotation of the drum to push/mechanically transfer material from the bottom of the drum near the drum head and to elevate the material for cascading discharge toward the open end of the drum and downward toward the area of largest diameter of the drum and wherein;

the first, generally helical, mixing blade helical mixing blade develops in a clockwise direction from an open end of the drum towards the drum head and the second blade extends in an anti-clockwise direction towards the drum head; and wherein

the first, generally helical, mixing blade defines a spillway formation adjacent the second blade and wherein the height of the second blade is greater than the height of the adjoining mixing blade at the point of intersection of the first, generally helical, mixing blade and the second blade, thereby to define a side wall of the spillway formation.

20. (New) A mixing apparatus as claimed in claim 19 wherein the mixing drum is supported on a truck for rotation about a longitudinal axis inclined at about 13° to the horizontal.